

## V7C-480

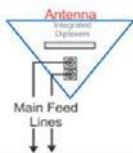
Vpol, Antenna, 698-896 MHz, 50.5", 80° H-Beam

- Vertical Pol. Antenna
- Suitable for LTE/CDMA/UMTS/GSM
- Optional Internal Diplexers



**Available with Integrated Diplexers**

- Reduces mainline cables
- Eliminates external devices



### ELECTRICAL SPECIFICATIONS

|  |                   |
|--|-------------------|
| Frequency Band, MHz                      | 698-896 MHz       |
| Horizontal Beam (3dB Points)             | 80°               |
| Gain @ 800 MHz                           | 13.5 dBi          |
| Vertical Beam (3dB Points)               | 16°               |
| Polarization                             | Vertical          |
| Electrical Downtilt Range, 2° Increments | 0-10°             |
| VSWR/Return Loss                         | <1.40:1 / 15.6 dB |
| VSWR / Return Loss w/ip                  | <1.50:1 / 14.0 dB |
| Front-to-Back at Horizon                 | >30 dB            |
| Upper Side Lobe Suppression              | <-16 dB           |
| Impedance                                | 50 Ohms           |
| Power Input Per Port CW, (w)             | 500               |
| Intermodulation (2x20W)                  | <-150 dBc         |

## MECHANICAL SPECIFICATIONS

|                                       |  |
|---------------------------------------|--|
| Input Connector (female)              | Back 7/16 DIN or w/bot. opt.               |
| Recommended Connector Coupling Torque | 7/16 DIN: 220-265 lbf-in (25-30 N-m)       |
| Antenna Dimensions (LxWxD)            | 50.5 x 12.5 x 7.1 in. (1282 x 318 x 180mm) |
| *Antenna Weight                       | 20 lbs                                     |
| Bracket Weight                        | 13.2 lbs                                   |
| RF Distribution                       | Printed Microstrip Substrate               |
| Radome                                | Ultra High-Strength Luran                  |
| Weatherability                        | UV Stabilized, ASTM D1925                  |
| Radome Water Absorption               | ASTM D570, 0.45%                           |
| Environmental                         | MIL-STD-810E                               |
| Wind Survival                         | 150 mph                                    |
| Front Wind Load @100mph               | 124.4 lbf                                  |
| Equivalent Flat Plate @100mph         | 2.53 sq-ft. (c=2)                          |
| Mounting Brackets                     | Fits 3.5 Inch Max. O.D. Pipe               |
| Mechanical Downtilt Range             | 0-12°                                      |
| Standard Bracket Kit                  | P/N 919011 ( Included )                    |
| Clamps/Bolts                          | Galvanized Steel/Stainless Steel           |

## ORDER INFORMATION

| MODEL           | DESCRIPTION   |
|-----------------|---|
| V7C-480-x       | "-x" is a placeholder for the built-in fixed electrical downtilt in degrees, set to 0, 2, 4, 6, 8 or 10   |
| V7C-480-xip     | "ip" option includes pass-thru integrated diplexer(s) which pass DC to the diplexer port(s)               |
| V7C-480-xip-bot | for bottom mounted connectors, add "-bot" (otherwise antenna comes standard with back mounted connectors) |
| 919036          | Optional Bracket Kit, 2-Point, 12deg D-tilt, For 4.5" OD Pole   |

\*Antenna Weight may vary slightly with options.